4279

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

JUN 30 2003

Ms. Cammy Kikumopo
Environmental Department
Toyota Motor, U.S.A., Inc.
19300 Gramercy Place
Los Angeles, CA 90501

RE: Hughes Aircraft Company
EPA ID# CAD981440068

Dear Ms. Kikumopo:

Enclosed is a Preliminary Assessment of the Hughes Aircraft site. This report contains the results of an evaluation conducted by the State of California Department of Toxic Substances Control (DTSC) for the U.S. Environmental Protection Agency (EPA) under Section 104 of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended [42 U.S.C. 9404], commonly known as Superfund. The purpose of the Preliminary Assessment is to determine whether this site may qualify for placement on the National Priorities List (NPL).

Based on currently available information contained in the enclosed report, EPA has determined that no further assessment is warranted. Although EPA has determined that this site does not qualify for Superfund listing, the State of California may require further assessment or cleanup of this site under State law. You may wish to contact DTSC, Thomas Cota, at 714/484-5459, for information pertaining to State assessment and cleanup requirements.

Please forward any written comments on the enclosed report to:

Jere Johnson
Site Assessment Manager
U.S. Environmental Protection Agency
75 Hawthorne Street, SFD-9-1
San Francisco, CA 94105

If you have any questions, please call Jere Johnson at 415/972-3094.

Sincerely,

Betsy Curnow

Betsy Curnow, Chief
States, Tribes, and Site Assessment Section
Superfund Division

Enclosure

cc: Kim Clark, County of Los Angeles Fire Department
Thomas Cota, Department of Toxic Substances Control

Memorandum

To: Jere Johnson

Subject: Preliminary Assessment for Hughes Aircraft Co.

Date: December 12, 2002

cc:

Attached is the following completed document:

PA __X__ SI _____ Other _____

Site Name: Hughes Aircraft Co. 36

EPA ID: CAD 981440068

City, County, State: Torrance, Los Angeles, California

For EPA Use Only

Latitude: 33° 51' 25.0" N Longitude: 118° 18' 48.0" W

CERCLIS Data Changes: _____

EPA Decision: NFA

Archive Site: ✓ yes _____ no

If yes, is another program involved? _____ yes _____ no

Other program(s): _____

Lead Agency: DTSC

Approval by Site Assessment Manager: [signature]

Sign-Off Date: 2.5.03

Document Screening Coordinator: [signature] 2/19

Chief, States, Planning, and Assessment Office: [signature]

FINAL EPA File Copy

Preliminary Assessment Report

Hughes Aircraft Co.
19300 Gramercy Place
Torrance, California

EPA ID No.: CAD 981440068

December 12, 2002

Submitted to: Jere Johnson
Superfund Project Officer for California
U.S. Environmental Protection Agency
Region IX

Prepared by: Majed Al Shami
Project Manager
Department of Toxic Substances Control, Cypress

Grant Number: V99925203-2

Review & Concurrence: Greg Holmes

1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA), Region IX, under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), has tasked the Department of Toxic Substances Control (DTSC) to conduct a preliminary assessment (PA) of the Hughes Aircraft Co. site in Torrance, Los Angeles County, California.

The purpose of this PA is to review existing information on the site and its environs, to assess the threat(s), if any, posed to public health, welfare, or the environment, and to determine if further investigation under CERCLA/SARA is warranted. The scope of the PA includes review of information available from federal, state, and local agencies and the performance of a site reconnaissance visit.

Using these sources of existing information, the site is then evaluated using EPA's Hazard Ranking System (HRS) criteria to assess the relative threat associated with actual or potential releases of hazardous substances at the site. The HRS has been adopted by the EPA to help set priorities for further evaluation and eventual remedial action at hazardous waste sites. The HRS is the primary method of determining a site's eligibility for placement on the National Priorities List (NPL). The NPL identifies sites at which the EPA may conduct remedial response actions. This report summarizes the findings of these preliminary investigative activities.

The Hughes Aircraft Company site was identified as a potential hazardous waste site and entered into the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) on August 3, 1994 (CAD 981440068).

1.1 Apparent Problem

The apparent problems at the site, which contributed to EPA's determination that a PA was necessary, are presented below.

The Hughes Aircraft site consists of two buildings, S-72 and S-73, and a former hazardous waste container storage area. Building S-73 was formerly the location of a wastewater treatment unit (Fig. 2). Hughes leased the property from GSIC Realty Corporation from 1982 until 1992. In 1992 GSIC sold the property to Toyota (PRC 1996b). The two buildings were converted to office space by Toyota. The hazardous waste container storage area measured 1,237 square feet and was used to store various wastes generated on the site. The storage area was closed by Toyota and this site is now being used as a parking lot (PRC 1995).

Toyota Motor currently maintains several office buildings, an automobile parts distribution center, and automobile service department at the facility. In 1992 Toyota Motor contracted with Environmental Audit Inc. to conduct a Phase I environmental

assessment of the site.

2.0 SITE DESCRIPTION

2.1 Location

The Hughes facility (currently owned by Toyota) is located at 19300 Gramercy Place in Torrance, Los Angeles County, California. Figure 1 shows the location of the site. The geographic coordinates of the Hughes facility are latitude 33 51' 25.0" north and longitude 118 18' 48.0" west (Township 4S, Range 14W).

2.2 Site Description

Hughes occupied about 7 acres and was in the southwest corner of the current Toyota property (PRC 1996f). The former hazardous waste storage area covered approximately 1,240 square feet. The site is bordered by Gramercy Place and an oil refinery to the west, 195th Street to the south, 190th Street and a residential area to the north, and Western Avenue to the east, in a mixed residential and light industrial area. Figure 2 shows the facility layout.

2.3 Operational History

The ownership of the facility before 1982 is unknown. However, information prepared by Hughes suggests that a steel mill might have been located on the same land (Hughes 1988). Hughes leased the property from GSIC Realty Corporation from 1982 until 1992. In 1992 GSIC sold the property to Toyota Motor (PRC 1996b).

Hughes assembled and tested electronic components for satellites at the site from 1982 until 1992. Manufacturing operations at the facility included soldering and other metalworking operations, followed by etching of assembled parts. Isopropyl alcohol was used to clean parts at various stages of the process. Hughes also operated a photo etching process line, in which a solvent degreaser containing chlorinated solvents (including 1,1,1-trichloroethane and trichlorotrifluroethane) was used to clean parts before they were etched using ferric chloride or gold cyanide solutions. The facility also conducted electroplating operations that used (1) baths containing various metals, (2) a variety of acids, including nitric, acetic, fluoroboric, chromic, phosphoric, sulfuric, and hydrochloric acids. Following etching or plating, parts were then painted or coated to create the final products. No evidence of a release of hazardous constituents to the environment from the etching and plating process was found during the file review . Wastes from cleaning, degreasing, soldering, and photoetching operations were placed in containers and moved to the former hazardous waste storage area (SWMU I) for storage before being sent off site for disposal. Corrosive waste liquids from the etching process were treated in the former wastewater treatment unit (SWMU 2) by

neutralization with sodium hydroxide. The unit was also used to treat waste liquids from electroplating and etching operations that contained metals, including tin, copper, lead, nickel, ferric chloride, and gold cyanide. The effluent from SWMU 2 was discharged to the local sewer system (EAI 1992; Hughes 1988).

2.4 Current Operations

Toyota has conducted administrative activities at the facility since 1992. The portion of the facility that was formerly owned by Hughes consists of two office buildings, parking lots, and associated landscaped areas (PRC 1996B). DTSC approved a certification of closure for the former hazardous waste storage area (SWMU 1) in a letter dated August 11, 1992 (DTSC 1992). SWMU 2 was decommissioned by (1) filling the compartments that made up the unit with material of unknown composition and (2) placing a concrete cap over the fill material (PRC 1996f). According to Toyota personnel, no hazardous wastes are generated at the location of the former Hughes facility (PRC 1996F).

3.0 REGULATORY INVOLVEMENT

This section summarizes the Hughes facility's involvement with EPA and various California state regulatory agencies.

3.1 U.S. ENVIRONMENTAL PROTECTION AGENCY

Hughes submitted a Notification of Hazardous Waste Activity and a RCRA Part A permit application to EPA in 1982. The Part A permit application listed a container storage area with a capacity of 29 drums that was used to store the following wastes: spent solvents (F001, F003, F005, and D001); waste acid solutions (D002); and wastes from soldering operations (D008) (PRC 1996f).

3.2 DEPARTMENT OF TOXIC SUBSTANCES CONTROL

The facility submitted a RCRA Part B permit application to DTSC, formerly the California Department of Health Services, on November 8, 1988 (Hughes 1988). Hughes subsequently withdrew the Part B permit application and notified EPA of its intent to close in a letter dated August 31, 1990 (Hughes 1991). Hughes submitted a closure plan for the hazardous waste container storage area in May 1991. After issuing several notices of deficiency (NOD) to Hughes, DTSC approved the final closure plan in March 1992 (DTSC 1992). Table 1 depicts the chronology of the closure of the hazardous waste container storage area (DTSC 1991; DTSC 1992).

TABLE 1

CHRONOLOGY OF CLOSURE ACTIVITIES FOR THE HAZARDOUS WASTE CONTAINER STORAGE AREA

Date	Topic
11/08/88	Part B permit application received by EPA and state
08/31/90	Facility withdraws Part B permit application and notifies DTSC of intent to close
05/14/91	Closure plan received by DTSC
06/26/91	State rejects closure plan due to major inadequacies
07/17/91	EPA rejects closure plan submitted
07/29/91	Revised closure plan submitted
08/29/91	State NOD sent to facility
09/30/91	Revised Closure plan submitted
10/11/91	Completeness determination letter sent to facility
12/27/91	EPA NOD sent to facility
12/31/91	Public notice for closure plan
01/30/92	End of comment period
03/10/92	Final closure plan approval by DTSC
08/11/92	Acceptance of closure certification by DTSC

No documentation was obtained during the PA indicating that the Hughes facility has had any problems regarding compliance with RCRA or California state hazardous waste management regulations. A closure inspection report prepared by DTSC did not indicate any violations of applicable hazardous waste regulations (DTSC 1991).

3.3 CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

No documentation was discovered during the PA indicating that the Hughes facility had any interaction with the California Regional Water Quality Control Board (RWQCB). The RWQCB does not have any files regarding permitting surface water discharges or underground storage tanks at the facility (PRC 1996d). According to Toyota personnel,

the portion of the Toyota facility formerly owned by Hughes is not required to have permits from the RWQCB (PRC 1996b).

3.4 SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Hughes held several air permits from the South Coast Air Quality Management District (SCAQMD) which covered emissions from units operating in Building S-73 at the Hughes facility. These units are listed in Table 4 (Hughes 1991). According to Toyota personnel, no current operation on the portion of the Toyota facility formerly owned by Hughes requires air permits (PRC 1996b). Table 2 lists air permits formerly held by Hughes.

TABLE 2

SCAQMD PERMITS HELD BY HUGHES

Equipment Type	Permit No.
Chemical mill tank	M41288
Chemical mill tank	M41291
Degreaser	M24005
Degreaser/07771088	D07560
Degreaser/H-400630	M24004
Oven	M29156
Scrubber	M41290
Scrubber	M41289
Spray booth	M29155
Vapor phase solder	D03160

3.5 OTHER AGENCY INVOLVEMENT

Hughes held Permit No. 9391 from the County Sanitation District of Los Angeles County. This permit covered discharges of wastewater treated in the wastewater treatment unit to the local sewer system (Hughes 1991). According to Toyota personnel, no permits are required for discharges to the sewer system in the area of the Toyota property formerly owned by Hughes (PRC 1996b).

4.0 DESCRIPTIONS OF INDIVIDUAL SOLID WASTE MANAGEMENT UNITS

This section describes the two former SWMUs identified during the facility inspection, listed in Table 3. The following information is presented for each SWMU: description of the unit, dates of operation, wastes managed, release controls, and history of documented releases. Figure 2 shows the SWMU locations.

TABLES 3
SOLID WASTE MANAGEMENT UNITS

SWMU Number	SWMU Name	RCRA Hazardous Waste Management Unit*	Status
1	Former Hazardous Waste	Yes	Closed
2	Former Wastewater Treatment	No	Closed

* A RCRA hazardous waste management unit is one that currently requires or formerly required submittal of a RCRA part A or part B permit application.

4.1 SWMU 1- FORMER HAZARDOUS WASTE STORAGE AREA

The hazardous waste storage area was constructed in 1982 and was located along the eastern side of the property. It consisted of a 1,234 square foot cement block building on a 3,872 square foot asphalt pad. The capacity of the unit was 1,450 gallons (about 29 drums) of spent solvents, acids, alkaline, and solder dross wastes (Hughes 1991). Hughes submitted several closure certifications for SWMU 1 in 1992. DTSC approved the certification of closure on August 11, 1992.

4.2 SWMU 2 - FORMER WASTEWATER TREATMENT UNIT

The former wastewater treatment unit was installed in 1982 and was located inside building S-73. The unit consisted of a three compartment below ground concrete tank and associated piping with a total capacity of 750 gallons. Wastewater that entered SWMU 2 was neutralized using sodium hydroxide. The pH of the effluent from the unit was continuously monitored using a pH meter. Effluent from the unit was discharged to the city sewer.
There may have been releases to soil from the unit. Results of analyses of soil samples collected as part of a 1992 subsurface investigation indicated elevated concentrations

of lead (from 11 to 398 milligrams per kilogram) and chromium (17 to 91 mg/kg) in the soil below SWMU 2 (EAI 1992). SWMU 2 was decommissioned in 1992. Hughes personnel placed fill material of unknown composition in the compartments in the unit, and then placed a concrete cap over the unit. The contaminated area was covered with topsoil and has been paved.

5.0 CORRECTIVE ACTION CONSIDERATIONS

Corrective action criteria are used to assess the relative threat associated with actual or potential releases of hazardous substances from sites. These criteria represent the principal mechanism that EPA uses to determine if corrective action is necessary, and if so, the priority for implementing such corrective actions. The contractor for Toyota (PRC) has provided information on the release pathways at this site. Based on the data, the site appears to have been properly clean closed.

5.1 WASTE TYPE AND QUANTITY

The Hughes facility has one area that is a potential source of an uncontrolled release of contaminants. Results of analyses of soil samples taken from under the former wastewater treatment unit (SWMU 2) indicate elevated concentrations of lead and chromium. Samples were taken at depths ranging from 1 to 5 feet bgs, with analytical results indicating lead and chromium above detection limits in one soil sample at 5 feet bgs (EAI 1992). An earlier subsurface investigation indicated that chromium, copper, and lead approached concentrations comparable to background concentrations at depths of 10 feet bgs. SWMU 2 had a capacity of 750 gallons; however, the exact dimensions of this unit are not known (Hughes 1988). The exact quantity of potentially contaminated soil is not known. Solid wastes formerly generated at the facility are listed in Table 4.

TABLE 4

SOLID WASTES GENERATED AT HUGHES

Waste/EPA Waste Code"	Source	swmu
Spent solvents/ F001, F002, F003, F005, and D001	Parts cleaning activities	1
Gold cyanide solutions/ D002	Photoetching operations	1,2

Ferric chloride solution/ D002	Photoetching operations	1,2
Solder dross/ D008	Electronics manufacturing	1
Lab pack wastes/ various P- and U_ codes	Laboratory operations	1
Spill cleanup wastes/ F001, F002. F003, and F005	Cleanup of spills	1
Waste liquids containing tin, copper, lead, and nickel/NA	Etching and electroplating operations	2
Waste liquids containing nitric, sulfuric, acetic, hydrochloric, fluoroboric, chromic, and phosphoric acids/ NA	Etching and electroplating operations	2

- Not applicable (NA) designates nonhazardous waste.

5.2 GROUNDWATER

The Hughes facility lies within the Los Angeles Coastal Plain. The Los Angeles Coastal Plain is underlain by a thick sequence of Quaternary and Tertiary Age sediments, which overlie a basement complex of igneous and metamorphic rocks. This basement complex outcrops in the Santa Monica Mountains and Palos Verdes Hills. The overlying Tertiary rocks consist of sandstones, silt stones, mudstones, and shales. Quaternary Age alluvial sediments overlie the Tertiary rocks. These alluvial sediments are primarily comprised of sand with lenses and layers of gravel, silt, and clay. The alluvial sediments include, in descending order: (1) recent alluvium, (2) older dune sand, (3) Lakewood Formation, and (4) San Pedro Formation (Hughes 1991).

The recent alluvium and older dune sand are not present in the immediate vicinity of the facility. Upper Pleistocene sediments underlie the area near the facility and comprise the Lakewood Formation. The upper aquifer of the Lakewood formation is the Gage aquifer. Below the Gage aquifer lie the sands and gravels of the San Pedro Formation. The Torrance area is located in the West Coast Groundwater Basin. The principal hydrogeologic units in the area of the Hughes facility include the Bellflower aquitard, and the Gage, Lynwood, and Silverado aquifers (Hughes 1991).

The recent to late Pleistocene deposits overlying the Bellflower aquitard are river flood sediments, a heterogeneous mixture of fine sands, sandy clays, and silty clays. The relatively low permeability of these sediments makes them generally unsuitable for water wells. Occasional groundwater in this zone is perched above the Bellflower

aquitard. The top of the Bellflower aquitard occurs at a depth approximately between 60 and 70 feet bgs in the vicinity of the site. The thickness of the Bellflower aquitard beneath the Hughes facility is unknown, but based on a geologic log of a boring at the facility, it may be about 50 to 75 feet (Hughes, Date Unknown). The thickness of the Bellflower aquitard should restrict vertical flow of groundwater from the overlying sediments to the Gage, Lynwood, and Silverado aquifers that underlie the Bellflower aquitard. The Bellflower aquitard also appears to act as a confining layer for the underlying aquifers (Hughes, Date Unknown). The most shallow regional groundwater in the vicinity of the Hughes site occurs at depths ranging from approximately 110 to 155 feet bgs (Hughes 1991).

The Gage aquifer consists of fine to medium sands with some clay and silt. Water production from the Gage aquifer is limited to those areas composed of low amounts of clay and silt. The Gage aquifer extends from approximately 135 to 185 feet bgs (Hughes 1991).

The Lynwood and Silverado aquifers underlie the Gage aquifer. The Lynwood and Silverado aquifers are the aquifers most widely used for drinking water in the vicinity of Torrance. They are composed mainly of sands and gravels. The Lynwood aquifer occurs at depths of approximately 260 to 335 feet bgs, and the Silverado aquifer occurs at depths of about 505 to 760 feet bgs. These two aquifers are separated from the Gage aquifer and from each other by layers of fine-grained materials (Hughes 1991).

Based on USGS groundwater contour maps, groundwater movement in the Gage aquifer is toward the east-southeast, while the flow in the deep Silverado aquifer is toward the east-northeast (Hughes 1991). Average annual precipitation in the vicinity of the facility is 11 inches.

Based on the information obtained during the PA, there are no documented releases to groundwater from the facility. The potential for a release to groundwater from the former hazardous waste storage area (SWMU 1) is low because it has been closed in accordance with an approved closure plan, and DTSC subsequently approved the closure certification for the unit. Although releases to soil from SWMU 2 may have occurred, the potential for a release to groundwater is low because the depth to groundwater is more than 100 feet.

5.3 SURFACE WATER

The surface water pathway is not a pathway of concern, because hazardous substances are not available for migration to surface water bodies. The nearest surface water bodies that are used for drinking water or recreational purposes are Harbor Lake, which is located about 4 miles south of the facility, and the Pacific Ocean, which is about 4 miles west of the facility (USGS 1991). The site is not in a 100-year flood plain (DTSC 1990). Most of the facility is paved, with the remainder of the facility landscaped with grass and trees. The 2-year, 24-hour rainfall for the area is about 3.4

inches (PRC 1996a).

There have been no documented releases of hazardous substances from the facility to surface water. The potential for a release to surface water is low, because there is no readily available source of hazardous substances that could be released to surface water, and because there is a great distance to the nearest surface water body.

5.4 AIR

Potential sources of air emissions included various units operated by the Hughes facility, including degreasers, chemical mixing tanks, an oven, scrubbers, a spray booth, and equipment used in soldering operations. These units held permits from the SCAQMD; no evidence was found during the PA to indicate that the facility violated the terms of its permits. Currently, the site owned by Toyota that previously comprised the Hughes facility does not produce any air emissions that require permits (PRC 1996b).

5.5 SOIL

Documented releases to soil from facility operations may have occurred, according to the results of soil sampling conducted as part of two subsurface investigations at the Hughes facility (EAL 1992; Hughes 1988). These investigations noted elevated concentrations of lead and chromium under the area occupied by SWMU 2. The surface area and volume of this potential soil contamination is not known, although one of the investigations indicated that the concentrations of these metals were near background in samples collected at 10 feet bgs. The elevated concentrations of lead and chromium in soil are not accessible to workers at the site because affected areas have been paved or covered with topsoil as part of landscaping activities (PRC 1995). For this reason, soil exposure is not a pathway of concern at the facility.

REMEDIAL ' 'E ASSESSMENT DECISION - EP' REGION IX

EPA ID: CAD981440068 **Site Name:** HUGHES AIRCRAFT CO. SCG **State ID:**

Alias Site Names:

City: TORRANCE **County or Parish:** LOS ANGELES **State:** CA

Refer to Report Dated: 12/12/2002 **Report Type:** PRELIMINARY ASSESSMENT 001

Report Developed by: STATE

DECISION:

- [X] **1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:**
  - [X] **1a. Site does not qualify for further remedial site assessment under CERCLA (No Further Remedial Action Planned - NFRAP)**
  - [ ] **1b. Site may qualify for action, but is deferred to:**
- [ ] **2. Further Assessment Needed Under CERCLA:**
  - **2a. Priority:** [ ] **Higher** [ ] **Lower**
  - **2b. Other: (recommended action)** NFRAP (No Futher Remedial Action Planned

DISCUSSION/RATIONALE:

Site was satellite component manufacturing, assembly, and testing facility from 1982 to 1992. Now owned by automobile manufacturer as office space, parts distribution, and service center. Some evidence of low levels of metals below former wastewater treatment unit, now paved over. Few drinking water supply wells in area. Site does not appear to warrant further federal assessment.

Site Decision Made by: J. JOHNSON

Signature: _____ **Date:** 02/05/2003

EPA Form # 9100-3

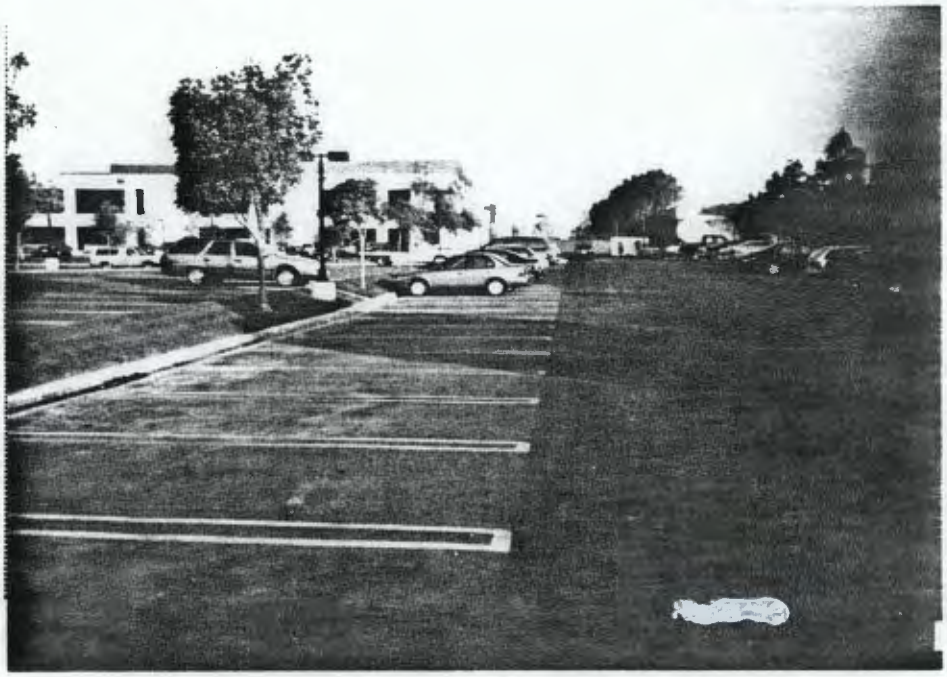
APPENDIX B

PHOTOGRAPH LOG

(2 Pages)


TOYOTA
TOYOTA FINANCIAL SERVICES
TOYOTA MOTOR CREDIT CORPORATION
LEXUS FINANCIAL SERVICES
19300


TOYOTA
FINANCIAL SERVICES
NORTH BUILDING
SOUTH BUILDING



Photograph No. 1 Location: Rear parking lot of Toyota facility
Orientation: North
Description: Shown is the former site of hazardous waste storage area (SWMU 1).

Photograph No. 2 Location: Rear parking lot of Toyota facility
Orientation: South
Description: Shown is the former site of degreasing and soldering operations.

Photograph No. 3 Location: Rear parking lot of Toyota facility
Orientation: West
Description: Shown is the former site of the wastewater treatment unit (SWMU 2).

Appendix C

CONTACT LOG

SITE: Hughes Aircraft Company
19300 Gramercy Place
Loa Angeles, California 90501
EPA ID NO.: CAD 981440068

NAME	AFFILIATION	PHONE	DATE	INFORMATION
Richard Gebert	HSS - DTSC - Glendale	(818) 551-2859	10 /02 /02	Phone Conversation for Information Retrieval
Peter Chen	DTSC - Glendale	(818) 551-2906	10 /02 /02	File Search for Information Retrieval
Jone Barrio	DTSC - Glendale	(818) 551-2952	10 /02 /02	Request for File Retrieval & File Room Search
Cammy Kikumopo	Toyota Motor, U.S.A.,Inc. Environmental Department	(310) 468-5291	11 /06/02	Site Visit - Interview, Photography, and 'Walk Around"
Steve Moyer	Hughes Aircraft Company	(310) 416-2259	10 /28/02	Phone Conversation for Information Retrieval
King Yu	RWQCB	(213) 266-7606	10 /28/02	Phone Conversation for water permits
Bobbie Soto for Hank Aceves	Southern California Water Company	(562) 907-9200	10 /28/02	Phone Conversation for Drinking Water Well Information Retrieval
Thomas Klinger	County of Los Angeles Fire Department	(323) 890-4114	10 /25/02	Phone call Requested Information
Ed Mitchell	California Water Services Company	(323) 263-4145	11 /6/02	Sent letter for Groundwater Drinking Water Well Information
Wanjiru Njuguna	WRD	(562) 623-3082	11 / 8/02	Phone Conversation for Groundwater Drinking Water Well Information
David Molina	City of Torrance	(310) 781-6961	11 / 8/02	Phone Conversation for Groundwater Drinking Water Well Information

CONTACT REPORT

AGENCY/AFFILIATION: Cal/EPA			CODE:
DEPARTMENT: DTSC			
ADDRESS:1011 N. Grandview Ave.		CITY: Glendale	
COUNTY: Los Angeles		STATE: CA	ZIP: 91201
CONTACT(S) Richard Gebert	TITLE HSS	PHONE (818) 551-2859	
DTSC PERSON MAKING CONTACT: Al Shami		DATE: 10/2/02	
SUBJECT: Req. Information			
SITE NAME: Hughes Aircraft Company		EPA ID: CAD 981440068	

DISCUSSION:

Requested information

CONTACT REPORT

AGENCY/AFFILIATION: Cal/EPA			CODE:
DEPARTMENT: DTSC			
ADDRESS:1011 N. Grandview Ave.		CITY: Glendale	
COUNTY: Los Angeles		STATE: CA	ZIP: 91201
CONTACT(S) Jone Barrio	TITLE file room	PHONE (818) 551-2952	
DTSC PERSON MAKING CONTACT: Al Shami		DATE: 10/2/02	
SUBJECT: Req. Information			
SITE NAME: Hughes Aircraft Company		EPA ID: CAD 981440068	

DISCUSSION:

Requested information

CONTACT REPORT

AGENCY/AFFILIATION: Cal/EPA			CODE:
DEPARTMENT: DTSC			
ADDRESS:1011 N. Grandview Ave.		CITY: Glendale	
COUNTY: Los Angeles		STATE: CA	ZIP: 91201
CONTACT(S) Peter Chen	TITLE file room	PHONE (818) 551-2906	
DTSC PERSON MAKING CONTACT: Al Shami		DATE: 10/2/02	
SUBJECT: Req. Information			
SITE NAME: Hughes Aircraft Company		EPA ID: CAD 981440068	

DISCUSSION:

Requested information

CONTACT REPORT

AGENCY/AFFILIATION: Toyota Motor			CODE:
DEPARTMENT: Environmental Department			
ADDRESS:19001 South Western Ave.	CITY: Torrance		
COUNTY: Los Angeles	STATE: CA	ZIP: 90509	
CONTACT(S) Cammy Kikumopo	TITLE Staff Specialist	PHONE (310) 468-5291	
DTSC PERSON MAKING CONTACT: Al Shami		DATE: 11/6/02	
SUBJECT: Req. Information			
SITE NAME: Hughes Aircraft Company	EPA ID: CAD 981440068		

DISCUSSION:

Requested information

CONTACT REPORT

AGENCY/AFFILIATION: Hughes Aircraft Company			CODE:
DEPARTMENT: Environmental Department			
ADDRESS:Building S25, MS 375, Los Angeles	CITY: Los Angeles		
COUNTY: Los Angeles	STATE: CA	ZIP: 90009	
CONTACT(S) Steve Moyer	TITLE Staff Specialist	PHONE (310) 416-2259	
DTSC PERSON MAKING CONTACT: Al Shami		DATE: 10/28/02	
SUBJECT: Req. Information			
SITE NAME: Hughes Aircraft Company	EPA ID: CAD 981440068		

DISCUSSION:

Requested information

CONTACT REPORT

AGENCY/AFFILIATION: Regional Water Quality Control Board			CODE:
DEPARTMENT: Surface Water Permits			
ADDRESS: Los Angeles	CITY: Los Angeles		
COUNTY: Los Angeles	STATE: CA		ZIP: 90009
CONTACT(S) King Yu	TITLE Staff Specialist	PHONE (213) 266-7606	
DTSC PERSON MAKING CONTACT: Al Shami		DATE: 10/28/02	
SUBJECT: Req. Information			
SITE NAME: Hughes Aircraft Company	EPA ID: CAD 981440068		

DISCUSSION:

Requested information

CONTACT REPORT

AGENCY/AFFILIATION: Water Quality Production			CODE:
DEPARTMENT: CWSC			
ADDRESS:5243 E. Sheila Street	CITY: Commerce		
COUNTY: Los Angeles	STATE: CA	ZIP: 90040	
CONTACT(S) Ed Mitchell	TITLE Superintendent	PHONE (323) 263-4145	
DTSC PERSON MAKING CONTACT: Al Shami		DATE: 11/6/02	
SUBJECT: Req. Information			
SITE NAME: Hughes Aircraft Co.	EPA ID: CAD 981440068		

DISCUSSION:

Requested information

CONTACT REPORT

AGENCY/AFFILIATION: County of Los Angeles			CODE:
DEPARTMENT: Fire Department			
ADDRESS:1320 N. Eastern Ave.	CITY: Los Angeles		
COUNTY: Los Angeles	STATE: CA	ZIP: 90063	
CONTACT(S) Thomas Klinger	TITLE Supervisor	PHONE (323) 890-4114	
DTSC PERSON MAKING CONTACT: Al Shami		DATE: 10/25/02	
SUBJECT: Req. Information			
SITE NAME: Hughes Aircraft Co.		EPA ID: CAD 981440068	

DISCUSSION:

Requested information

CONTACT REPORT

AGENCY/AFFILIATION: Water Replenishment District		CODE:
DEPARTMENT: GIS		
ADDRESS: 12621 E. 166th Street	CITY: Cerritos	
COUNTY: Los Angeles	STATE: CA	ZIP: 90703
CONTACT(S) Wanjiru Njuguna	TITLE GIS specialist	PHONE (562) 623-3082
DTSC PERSON MAKING CONTACT: Al Shami		DATE: 11/6/02
SUBJECT: Req. Information		
SITE NAME: Hughes Aircraft Co.	EPA ID: CAD 981440068	

DISCUSSION:

Requested information

CONTACT REPORT

AGENCY/AFFILIATION: City of Torrance			CODE:
DEPARTMENT: Water Department			
ADDRESS: Torrance	CITY: Torrance		
COUNTY: Los Angeles	STATE: CA		ZIP: 90509
CONTACT(S) David Molina	TITLE Supervisor	PHONE (310) 781-6961	
DTSC PERSON MAKING CONTACT: Al Shami		DATE: 11/8/02	
SUBJECT: Req. Information			
SITE NAME: Hughes Aircraft Company		EPA ID: CAD 981440068	

DISCUSSION:

Requested information

APPENDIX E

SITE RECONNAISSANCE INTERVIEW AND OBSERVATIONS REPORT

Department of Toxic Substances Control

OBSERVATIONS MADE BY: Majed Al Shami DATE: November 5, 2002

FACILITY REPRESENTATIVE(S) and TITLE(S): Cammy Kikumopo, Toyota Motor, Environmental Department

SITE: Hughes Aircraft Co. (Toyota Motor Inc.)

EPA ID: CAD 981440068

The site reconnaissance was conducted at the Hughes Aircraft Company (Toyota Motor) site on November 4, 2002. The property was leased by Hughes Aircraft Co. from GSIC Realty Corporation from 1982 until 1992. In 1992 GSIC sold the property to Toyota Motor Inc. The weather was sunny and the temperature was approximately 75° F. The site reconnaissance was conducted with Ms. Cammy Kikumopo, from the Department of Environmental for the new owner Toyota Motor Inc., at 1:30 p.m. to gather information on the site location and size, site history, processes used, and any hazardous waste generated, treated, stored or disposed of on site. The reconnaissance included a site tour during which photographs were taken.

The following information was obtained during the site reconnaissance:

The site is located at 19300 Gramercy Place, in the city of Torrance, the county of Los Angeles, California. The site occupies approximately 7 acres in a mixed residential, light industrial, and commercial area. The site is bordered on the north by 190th street, on the east Western Ave., on the west by Gramercy Pl., and on the south by 195th street. The residential areas are about 0.5 mile away form the site. A school is located about 2000 feet northwest of the site.

The site is currently occupied by Toyota Motor Inc. The site has all new offices in concrete buildings, built in 1993.

At the time of the site visit, there were no indications of any hazardous material or waste on the site.

FX-9 Wells

STATE OF CALIFORNIA - ENVIRONMENTAL PROTECTION AGENCY PETE WILSON, Governor

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
REGION 4
245 WEST BROADWAY, SUITE 350
LONG BEACH, CA 90802
(310) 590-4865

August 11, 1992

Michael J. Aughinbaugh, Engineer
Hughes Aircraft Company
Space and Communications Group
P.O. Box 92919
Bldg. S-40/T360
Los Angeles, California 90009

Dear Mr. Aughinbaugh:

CLOSURE CERTIFICATION, HUGHES AIRCRAFT COMPANY - SPACE AND COMMUNICATIONS GROUP, TORRANCE, CALIFORNIA 90501, (EPA ID NO. CAD981440068)

The California Department of Toxic Substances Control (Department) has reviewed the closure certification report (report) dated May 29, 1992 with the last amendment dated July 15, 1992 for the subject facility.

The report certifies that all closure activities have been completed in accordance with the closure plan approved by the Department on March 12, 1992. The Department hereby accepts the closure certification and considers the hazardous waste management facility closed.

This acceptance does not preclude the Department from requiring corrective action, should it later determine that a release of hazardous waste or constituents has occurred into the environment from this facility. This acceptance is also not a certification that the overall operations at this facility do not pose an environmental or public health threat, nor does it release the owner/operator from its responsibilities and liabilities under the law.

Pursuant to Section 66265.143(j)(1), California Code of Regulations, Title 22, the Hughes Aircraft Company is no longer required to maintain financial assurance for final closure of the hazardous waste management facility.

If you have any questions, please contact Mr. Steven Ross at (310) 590-4894.

Sincerely,

Mohinder S. Sandhu, P.E.
Branch Chief
Facility Permitting Branch

cc: Mr. Lester Kaufman, Chief
Hazardous Waste Management Division (H-3-2)
U. S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, California 94105

Department of Toxic Substances Control
Fees Unit
P.O. Box 806
Sacramento, California 95812-0806

State Board of Equalization
1020 North "N" Street
Sacramento, California 95814

Mayor Katy Geissert
City of Torrance, City Hall
3031 Torrance Boulevard
Torrance, CA 90503

Torrance City Clerk
Torrance City Board of Supervisors
City Hall
3031 Torrance Boulevard
Torrance, CA 90503

Dr. Edward J. Richardson
Superintendent
Torrance Unified School District
2335 Plaza Del Amo
Torrance, CA 90509

Mr. Leroy Jackson
City Manager, City Hall
3031 Torrance Boulevard
Torrance, CA 90503

U.S. Environmental Protection Agency

Superfund Information Systems

CERCLIS Hazardous Waste Sites

HUGHES AIRCRAFT CO. SCG

Actions

Site Info | Actions | Aliases | Financials | Operable Units | RODs

OU	Action Name	Qualifier	Lead	Actual Start	Actual Completion
00	DISCOVERY		F		08/03/1994

Last updated on Monday, September 16th, 2002
URL: http://www.epa.gov/superfund/sites/cursites/c3ca/a0905121.htm

U.S. Environmental Protection Agency

Superfund Information Systems

CERCLIS Database
Archived Sites
Record of Decision System (RODS)
Superfund's Data Element Dictionary (DED)
Order Superfund Products

CERCLIS Hazardous Waste Sites

HUGHES AIRCRAFT CO. SCG

Site Information

Site Info | Actions | Aliases | Financials | Operable Units | RODs

Site Name: HUGHES AIRCRAFT CO. SCG
Street: 1300 GRAMERCY PL.
City / State / Zip: TORRANCE, CA 90503

EPA ID: CAD981440068
EPA Region: 09
County: LOS ANGELES

NPL Status: Not on the NPL
Non-NPL Status: PA Start Needed
Federal Facility: Not a Federal Facility
Incident Category:

OSWER Home | Superfund Home

EPA Home | Privacy and Security Notice | Contact Us

Last updated on Monday, September 16th, 2002
URL: http://www.epa.gov/superfund/sites/cursites/c3ca/s0905121.htm

DTSC INTRANET

Department of Toxic Substances Control

HWTS EPA ID Profile

EPA ID: CAX000129049 **Name:** HUGHES AIRCRAFT CO
Status: INACTIVE **Inactive Date:** 1986-04-30 **Contact:** WILIEKA ROSENTHAL
County: LOS ANGELES **NAICS:** **Record Entered:** 1984-11-29 **Last updated:** 2001-07-10
Street Map of this site

	Name	Address	City	State	ZIP
Location	HUGHES AIRCRAFT CO	19300 GRAMERCY PL	TORRANCE	CA	905010000
Mailing		--	LOS ANGELES	CA	900090000
Owner	--	--	--	99	--
Oper/Contact	WILIEKA ROSENTHAL	--	--	99	--

Based ONLY upon EPA ID: CAX000129049:

Calif. Manifests?	Out-of-State Manifests?	Transporter Registration?	Toxic Release Inventory Data?	Calsit
NO	NO	NO	NO	N

End of Report

DTSC INTRANET

Department of Toxic Substances Control

Toxic Release Inventory Facility Information

FacID	EPA(as reported)	Customer Name/Address and County Number			
192214	CAD981440068	HUGHES AIRCRAFT COMPANY/SPACE & COMMUNICATIONS GRP			
19300 GRAMERCY PL.			TORRANCE	90503	19

Street Map of this site

SIC	Type	Technical Contact Name	Phone	Dun&BradSt	Latitude	Longitude
3699	C	CAROL YIP KAUFMAN	213/647-8381	00-828-6221	335100	1181800

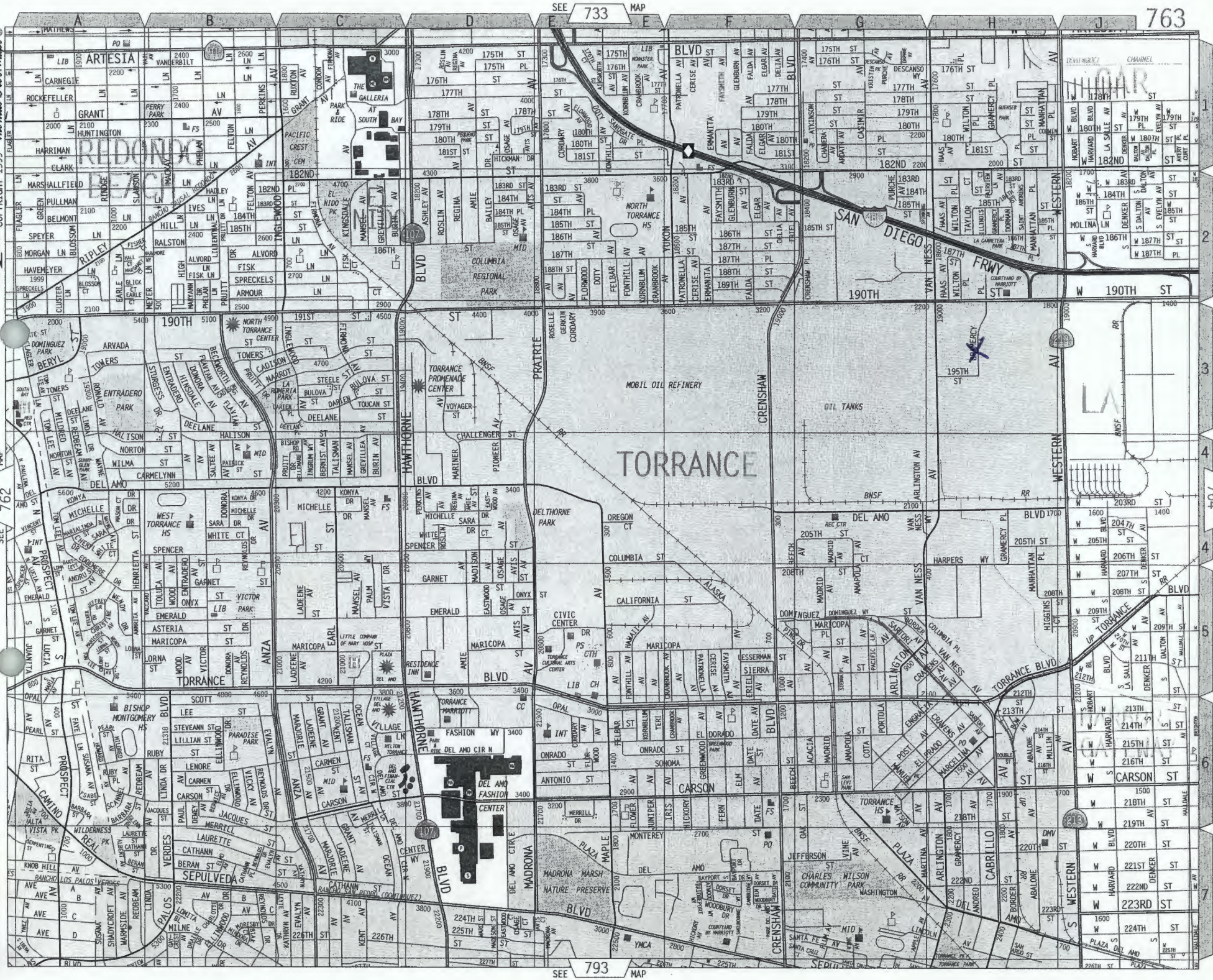
Years Filed: (click on a Y or D to get that year's chemicals; N = not a filer)

87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05
Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Comments: After '87 did not file

End of Report

TRI Home Page


SEE 733 MAP
763
SEE 762 MAP
SEE 764 MAP
SEE 793 MAP
COPYRIGHT 1999 Thomas Bros. Maps®
LOS ANGELES CO.
TORRANCE
REDONDO BEACH
LA
GARDENA
HARBOR FWY
SAN DIEGO FRWY
ARTESIA
DEL AMO
190TH
182ND
PACIFIC COAST HWY
CRENSHAW BLVD
HAWTHORNE BLVD
WESTERN AVE
NORTH TORRANCE HS
WEST TORRANCE HS
TORRANCE HS
BISHOP MONTGOMERY HS
MOBIL OIL REFINERY
OIL TANKS
TORRANCE PROMENADE CENTER
NORTH TORRANCE CENTER
DEL AMO FASHION CENTER
THE GALLERIA AT SOUTH BAY
COLUMBIA REGIONAL PARK
DELTHORNE PARK
MADRONA MARSH NATURE PRESERVE
CHARLES WILSON PARK
CIVIC CENTER
TORRANCE CULTURAL ARTS CENTER
RESIDENCE INN
TORRANCE MARRIOTT
COURTYARD BY MARRIOTT
LITTLE COMPANY OF MARY HOSP
REC CTR
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YMCA
PARK & RIDE DEL AMO CIR N
PARK & RIDE DEL AMO CIR S
PARADISE PARK
ENTRADERO PARK
LA ROMERIA PARK
DOMINGUEZ PARK
VICTOR PARK
EL NIDO PK
MADRONA MARSH NATURE PRESERVE
RANCHO LOS PALOS VERDES
RANCHO SAN PEDRO (DOMINGUEZ)
ARVADA
TOWERS
ENTRADERO
HINSDALE
DOMORA
FLAVIAN
BECKWORTH
PRUITT
CADISON
NARROT
STEELE
BULOVA
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TOUCAN
DEELANE
HALISON
NORTON
WILMA
CARMELYNN
SALTEE
PATRICK
BISHOP
BERNIST
TALISMAN
MANSEL
GREYLLEA
BURIN
MARINER
VOYAGER
CHALLENGER
PIONEER
PRAIRIE
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CORDARY
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MICHELLE
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SPENCER
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PARIE
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ENTRADERO
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OREGON CT
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CALIFORNIA ST
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DOMINGUEZ WY
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SIERRA
PINE DR
HAMLIN AV
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CRANBROOK
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FAYSMITH
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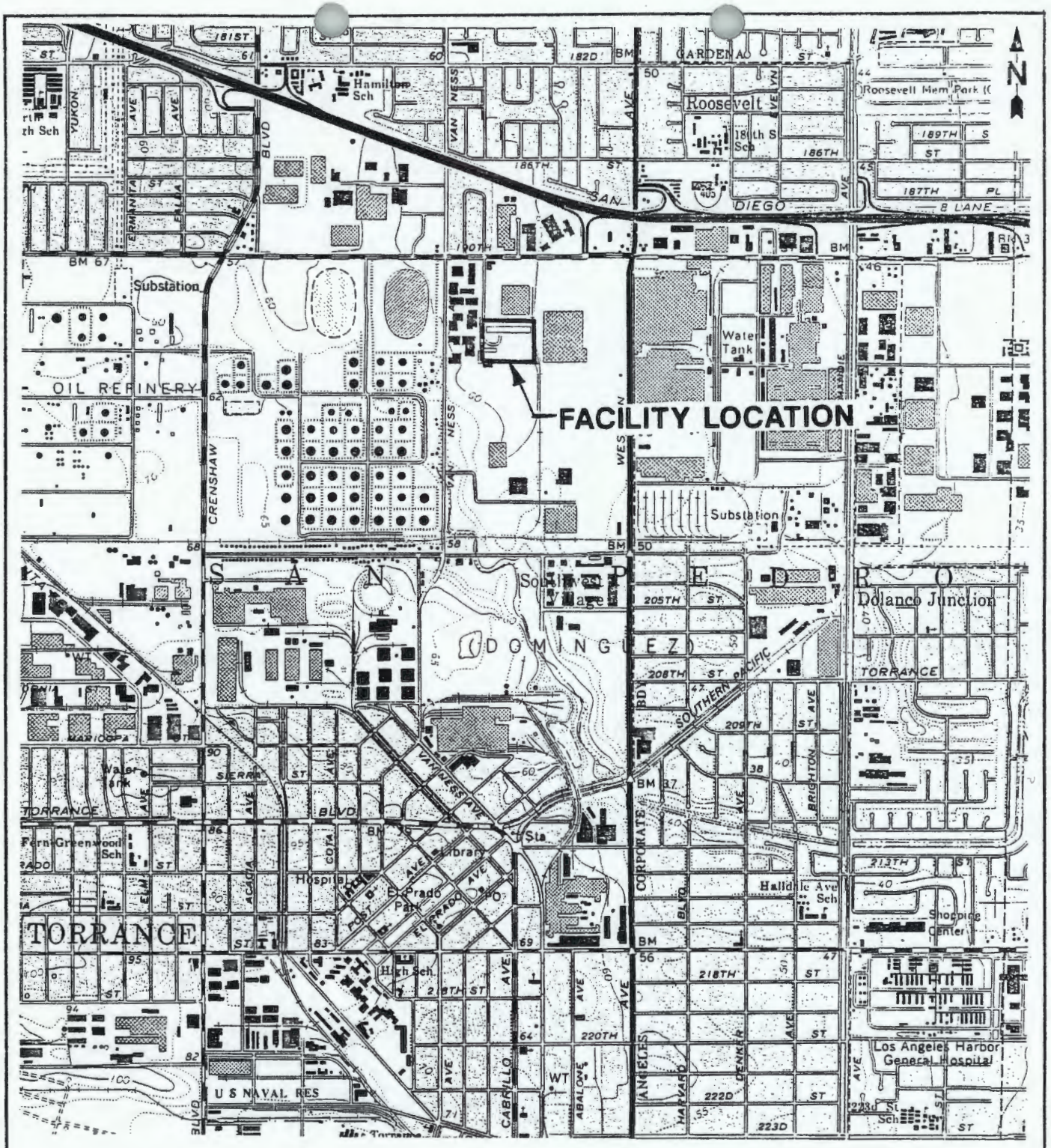


SCALE 1:24000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

SCALE: 1" = 2,000'

Quadrangle Location

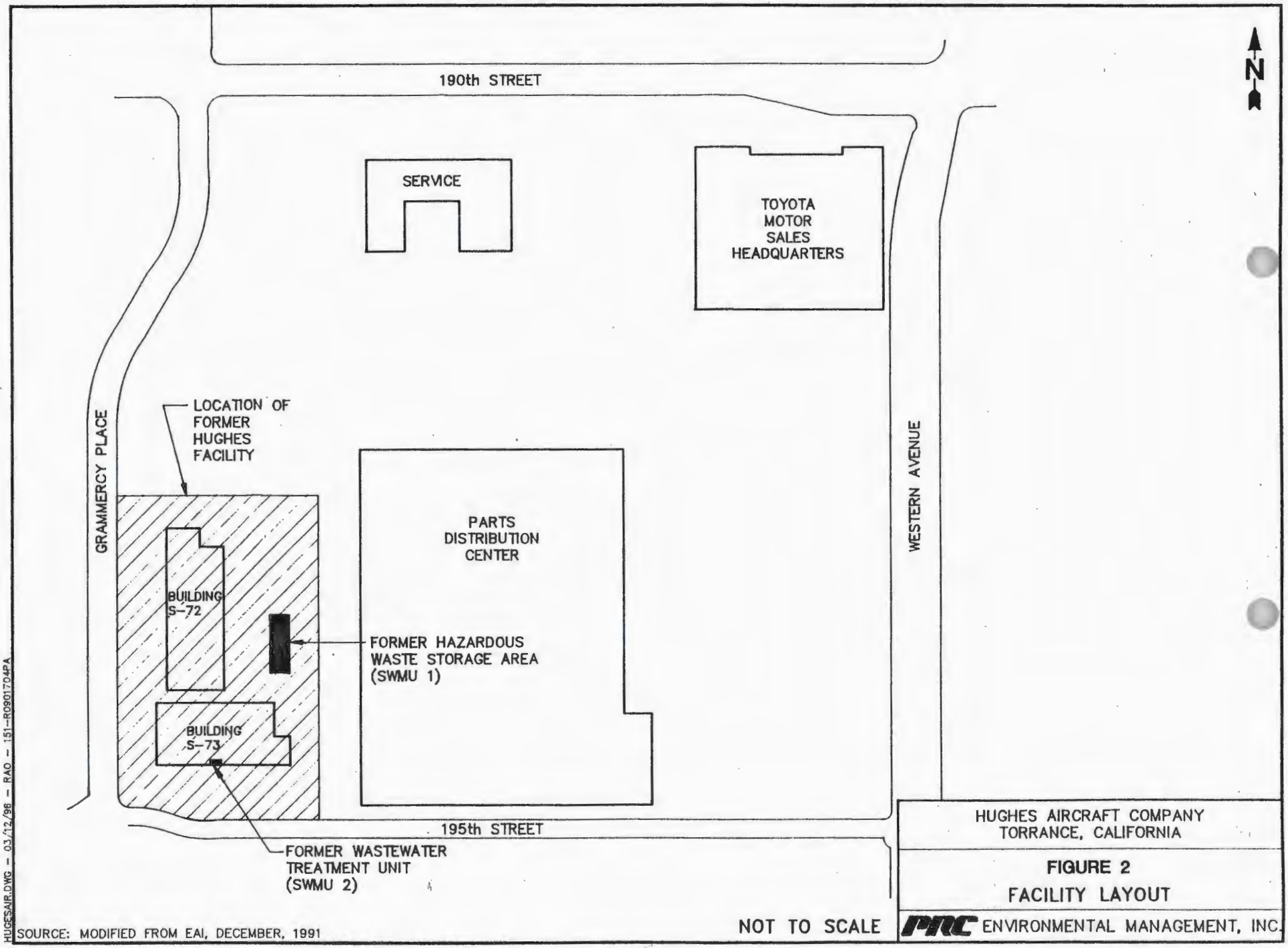
HUGHES AIRCRAFT COMPANY
TORRANCE, CALIFORNIA

FIGURE 1

FACILITY LOCATION

SOURCE: MODIFIED FROM US GEOLOGICAL SERVICE, TORRANCE, CALIFORNIA, QUADRANGLE, 1981

EMC ENVIRONMENTAL MANAGEMENT, INC.


190th STREET
N
SERVICE
TOYOTA
MOTOR
SALES
HEADQUARTERS
LOCATION OF
FORMER
HUGHES
FACILITY
GRAMMERCY PLACE
WESTERN AVENUE
PARTS
DISTRIBUTION
CENTER
BUILDING
S-72
FORMER HAZARDOUS
WASTE STORAGE AREA
(SWMU 1)
BUILDING
S-73
195th STREET
FORMER WASTEWATER
TREATMENT UNIT
(SWMU 2)
HUGESAIR.DWG -- 03/12/96 -- RAO -- 151-R0901704PA
SOURCE: MODIFIED FROM EAI, DECEMBER, 1991
NOT TO SCALE
HUGHES AIRCRAFT COMPANY
TORRANCE, CALIFORNIA
FIGURE 2
FACILITY LAYOUT
PRC ENVIRONMENTAL MANAGEMENT, INC.

ArcData Online GIS Data on the Web

Home | Site Map | Feedback

Data Browser | About ADOL | Data Providers | Map Studio

19300 GRAMERCY PL, TORRANCE, CA, 90501

Click on Map to: ◉ Recenter ○ Recenter and Zoom In ○ Recenter and Zoom Out

MAKE NEW MAP | DOWNLOAD DATA *Now Available!* | USER FEEDBACK | USER HELP

POWERED BY ESRI Internet Technology

POWERED BY SDE

POWERED BY Sun microsystems

DATA BY GDT GEOGRAPHIC DATA TECHNOLOGY

Data Browser | About ADOL | Data Providers | Map Studio
Home | Site Map | Feedback | ESRI Home Page

Send your questions or comments to: aoteam@esri.com
Wed Sep 11 09:19:20 2002

REFERENCES

Department of Toxic Substances Control (DTSC). 1990. "Completeness Review of Part B Permit Application for Hughes Aircraft Company." May 23.

DTSC. 1991. "Inspection Report: Hughes Aircraft Company." September 27.

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Hughes. 1988. "Information Regarding Potential Releases from Solid Waste Management Units." November 8.

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PRC Environmental Management, Inc. (PRC). 1995. Visual Site Inspection of the Toyota Facility. December 20.

PRC. 1996a. Record of Telephone Conversation Regarding Rainfall in the Vicinity of the Hughes Facility. Between Gabriel Rood, PRC, and Edwards Air Force Base Weather Station. February 21.

PRC. 1996b. Record of Telephone Conversation Regarding Toyota Operations. Between James Styers, PRC and Cecil Ransom, Senior Staff Specialist, Toyota. February 22.

PRC. 1996c. Record of Telephone Conversation Regarding Ownership History and Hazardous Waste Permitting History of Hughes. Between James Styers, PRC, and Steve Moyer, Environmental Specialist, Hughes. February 22.

PRC. 1996d. Record of Telephone Conversation Regarding Permits for Surface Water Discharges and Underground Storage Tanks. Between James Styers, PRC, and King Yu, Regional Water Quality Control Board. February 26.

PRC. 1996e. Record of Telephone Conversation Regarding Drinking Water Supply for the Torrance Area. Between James Styers, PRC, and Chuck Hopper, Metropolitan Water District. February 26.

PRC. 1996f. Record of Telephone Conversation Regarding Historical Operations at the Hughes Facility. Between James Styers, PRC, and Steve Moyer, Environmental Specialist, Hughes. March 1.

PRC. 1996g. Record of Telephone Conversation Regarding Recent Activity at the Hughes Facility. Between James Styers, PRC, and Armand Regge, DTSC. March 3.

United States Geological Survey (USGS). 1991. 7.5-Minute Topographic Map of Torrance, Los Angeles County, California Quadrangle.

TRANSMITTAL LIST FOR PA REPORT

SITE: Hughes Aircraft Company

Ms. Cammy Kikumopo
Environmental Department
Toyota Motor, U.S.A.,Inc.
19300 Gramercy Place
Los Angeles, California 90501

Ms. Kim Clark
County of Los Angeles, Fire Department
5825 Rickenbacker Road
Commerce, California 90040

Thomas Cota
DTSC Cypress

4879

******* CONFIDENTIAL *******
******* PREDECISIONAL DOCUMENT *******

SUMMARY SCORESHEET FOR COMPUTING PROJECTED HRS SCORE

SITE NAME: Hughes Aircraft Company

CITY: Torrance **COUNTY:** Los Angeles

EPA ID #: CAD 981440068 **EVALUATOR:** Majed Al Shami

PROGRAM ACCOUNT #: _____ **DATE:** Nov 29, 2002

LAT/LONG: 33° 51' 25"N / 118° 18' 48"W

THIS SCORESHEET IS FOR A **PA:** X **SI:** _____

OTHER: _____

RCRA STATUS (check all that apply):

- x Generator
- _____ Transporter
- _____ TSDF
- _____ Not Listed in RCRA Database as of (Date): _____

STATE SUPERFUND STATUS:

- _____ DTSC CalSites (AWP, BKLG, ERAP, or VCP) (Date): _____
- _____ WQARF (Date): _____
- _____ No State Superfund Status (Date): _____

	S Pathway	S^2 Pathway
Groundwater Migration Pathway Score (Sgw)	20.54	421.92
Surface Water Migration Pathway Score (Ssw)	*	*
Soil Exposure Pathway Score (Ss)	*	*
Air Migration Pathway Score (Sa)	*	*
$(S_{gw}^2 + S_{sw}^2 + S_{se}^2 + S_{am}^2)$		421.92
$(S_{gw}^2 + S_{sw}^2 + S_{se}^2 + S_{am}^2) / 4$		105.48
$\sqrt{(S_{gw}^2 + S_{sw}^2 + S_{se}^2 + S_{am}^2) / 4}$		**10.27**

* Pathway evaluated, but not assigned a score (explain):

The surface water pathway was evaluated but not assigned a score as there are no surface water intakes within 4 miles downstream of the site.

The soil exposure and air migration pathways were evaluated but not assigned a score because the entire site has been paved, and there is no residence, school or day care center within 200 feet from the site.

GROUNDWATER PATHWAY CALCULATIONS FOR POPULATION

ACTUAL CONTAMINATION

Well Identifier	Contaminant Detected	Contaminant Concentration (Note Units)	Benchmark (Note Units)	Level Multiplier* (A)	Apportioned Population Well Serves (B)	Actual Contamination Factor (A x B)
					SUM LEVEL I CONCENTRATIONS	0
					SUM LEVEL II CONCENTRATIONS	0

*** Level Multipliers:**
Level I = 10.
Level II = 1.

POTENTIAL CONTAMINATION

Distance Ring (Miles)	Number of Wells Within Distance Ring	Population Served by Wells Within Distance Ring	Distance Weighted Population Values (Table 3-12)
0.00 to 0.25	0	0	0
>0.25 to 0.50	0	0	0
>0.50 to 1.00	0	0	0
>1.00 to 2.00	2	5,500	939
>2.00 to 3.00	0	0	0
>3.00 to 4.00	8	706	42
		SUM	981
		POTENTIAL CONTAMINATION: SUM/10	98.1

AQUIFER EVALUATED Gage

GROUNDWATER MIGRATION PATHWAY SCORESHEET

Likelihood of Release	Maximum Value	Score	Rationale	Data Quality
1. Observed Release	550	0	1	H
2. Potential to Release				
2a. Containment	10	9	2	H
2b. Net Precipitation Value	10	1	3	H
2c. Depth to Aquifer Value	5	3	4	H
2d. Travel Time	35	15	5	H
2e. Potential to Release [lines 2a x (2b+2c+2d)]	500	171		
3. Likelihood of Release (line 1 or 2e)	550	171		
Waste Characteristics				
4. Toxicity/Mobility	(a)	10,000	6	H
5. Hazardous Waste Quantity	(a)	1	7	E
6. Waste Characteristics (lines 4 x 5, then use Table 2-7)	100	10		
Targets				
7. Nearest Well Value	50	5	8	H
8. Population				
8a. Level I Concentrations	(b,c)	0	9	H
8b. Level II Concentrations	(b,c)	0	9	H
8c. Potential Contamination	(b,c)	981	10	
8d. Population (lines 8a+8b+8c)	(b)	981	10	
9. Resources	5	5	11	H
10. Wellhead Protection Area	20	0	12	H
11. Targets (lines 7+8d+9+10)	(b)	991		
Aquifer Score				
12. Aquifer Score [(lines 3 x 6 x 11)/82500, Subject to a Maximum of 100]	100	20.54		
GROUNDWATER MIGRATION PATHWAY SCORE				
13. Pathway Score (Sgw) (Highest score from line 12 for all aquifers evaluated, subject to a maximum of 100)	100	20.54		

(a) Maximum value applies to waste characteristics category.
(b) Maximum value not applicable.
(c) Value computed on attached calculation sheet.

AQUIFER EVALUATED Gage

Hughes Aircraft Company
Torrance, California
EPA ID: CAD 981440068
HRS RATIONALE

GROUNDWATER PATHWAY:

1. Observed Release: An observed release could not be established at this time. There is no information to indicate an observed release has occurred to the on-site groundwater. Therefore, a potential to release has been assigned.

2. Containment: There is no evidence of hazardous substance migration from the container area. According to HRS (Federal Register) Table 3-2, the containment factor is assigned a value of 9.

3. Net Precipitation: According to Figure 3-2, the net precipitation factor is 1 for the Torrance area.

4. Depth to Aquifer: The depth from the lowest known point of soil contamination to the drinking water aquifer is approximately 110 feet. From HRS Table 3-5, the depth to aquifer factor is assigned a value of 3.

5. Travel Time: The unsaturated zone beneath the site is comprised of alluvial deposits of holocene age that consist predominantly of sands and layers of gravel, silt, and clay approximately 15 feet thick in the vicinity of the site. Using the hydraulic conductivity for sand and clay silts (Table 3-6), with a thickness interval between 5 to 100 feet, a travel time factor value of 15 is assigned from Table 3-7 of the HRS.

6. Toxicity/ Mobility: Laboratory analysis of samples indicates the presence of lead in the onsite soil. Referring to the Superfund Chemical Data Matrix, dated June 1996, (SCDM), the highest toxicity/ mobility value for lead is 10,000.

7. Hazardous Waste Quantity: Based on the information submitted by Hughes Co., 29 drums were used to store the wastes. According to HRS Table 2-5 (29 X 50/500 = 2.9). The hazardous waste quantity factor using Table 2-6 is assigned a value of 1.

8. Nearest Well: The nearest well is between 1.0 -2.0 mile from the site.
From HRS Table 3-11, a nearest well factor value of 5 is assigned.

9. Level I and II concentrations were not projected because an observed release was not projected.

10. Potential contamination: Torrance Water District (TWD) obtains 10 percent of its drinking water from 2 active wells which are within 4 miles of the site. The Metropolitan Water District (MWD) supplies the other 90 percent. The blended system supplies water

to approximately 110,000 people. No single well contributes more than 40 percent of the total water supplied. The HRS apportioned population for each well is: 0.10 X 110,000/2 = 5,500.

Southern California Water Company (SCWC) obtain 10% of its drinking water from 8 active wells, and the MWD supplies the other 90%. The blended system supplies water to approximately 56,500 people. No single well contributes more then 40% of the total water supply. The HRS apportioned population for each well is: 0.10 X 56,500/8= 706.

Distance Ring (miles)	Number of wells	Population served by wells
0 - 0.25	0	0
0.25 - 0.5	0	0
0.5 - 1.0	0	0
1.0 - 2.0	TWD	5,500
2.0 - 3.0	0	0
3.0 - 4.0	SCWC	706

11. Resources: A value of 5 assigned because it is assumed that wells within 4 miles of the site are used for irrigation.

12. Wellhead Protection: There are no wellhead protection areas in the California.

CONFIDENTIAL PREDECISIONAL DOCUMENT

SITE DISCOVERY SCREENING PRIORITIZATION WORKSHEET

Site Name: HUGHES AIRCRAFT CO. SCG **EPA ID Number:** CAD 981440068

Site Discovery Screening Prioritization Criteria:

Evaluation Category	Score	Criteria for Evaluation
1. Site Discovery Date	1	7 if December 31, 1992 or earlier 5 if 1993 3 if January 1994 through June 1994 1 if July 1, 1994 or later.
2. Population Density	5	5 if densely populated urban area 3 if populated area within rural small town 1 if sparsely populated rural area.
3. Environmental Justice Considerations	3	5 if high potential 3 if medium potential 1 if low potential.
4. Regional Environmental Setting	5	5 if regional contamination is known* 3 if regional contamination is uncertain 1 if regional contamination is unlikely.
5. Hazardous Substances Present On Site	3	5 if presence documented on site 3 if presence is uncertain 1 if presence is not likely on site.
6. Nearby Groundwater Use Within 4 Miles of the Site	5	5 if municipal wells are known* 3 if private wells are known* , or municipal wells are uncertain 1 if agricultural wells only, if private wells uncertain or no drinking water wells.
7. Potential Surface Water Impacts	3	5 if downstream d.w. intake or fishery is known* 3 if downstream sensitive environment is known*, or downstream intake or fishery uncertain, 1 if surface water targets are unlikely.
8. School, Residence, or Daycare Center Within 0.5 Mile of Site	3	Score 5 if known*, 3 if uncertain, 1 if unlikely.
9. Regulatory Involvement	3	5 no known* regulatory involvement 3 minor involvement of at least one agency 1 significant involvement of at least one agency.
TOTAL	31	

Contact Log *(Date, Agency, Contact Person, Phone No., Brief Information Summary)*

The Long Beach DTSC has a 3" – 6" thick file.
Information from the RWQCB is still awaited.

* Information listed as "known" only if the relevant information is readily available in the CERCLA folder, by in-house file search, by preliminary contacts with agencies, or from personal knowledge of site vicinity. Rev. 2/6/95

CONFIDENTIAL PREDECISIONAL DOCUMENT

SITE DISCOVERY SCREENING MEMO

Site Name: HUGHES AIRCRAFT CO. SCG

Site Address: 19300 GRAMERCY PL.

City, County, State: TORRANCE, LOS ANGELES, CA

Site EPA ID Number: CAD 981440068

Prepared By: SUBBU MAHADEVAN

Date: FEBRUARY 27, 1995

This memo documents the findings of the site discovery screening conducted for the site:

Geographic Location Considerations:
The site is located in an industrial/residential area of Torrance. It appears that the site is within 2 miles of the DEL AMO site, a potential superfund site. The site is also close to oil refineries. There is extensive groundwater use in the area. There is also documentation of aquifer interconnection in the vicinity of the site.

NPL Status
- X Not part of a current NPL site
- ___ This site is part of the NPL site listed below:
  - *NPL Site name:* _____
  - *EPA ID Number of NPL Site:* _____

RCRA Status
- ___ Generator
- ___ Small Quantity Generator
- ___ Transporter
- ___ TSDF
- X Not Listed in RCRA Database as of (date of printout) 11/22/94.

Additional Relevant Information:
(briefly describe known sampling information here, if readily available)
None known at this stage.

SITE DISCOVERY SCREENING SCORE 31 (from reverse side of this memo)

EPA CONCURRENCE _____ **DATE** _____